Claims 1-9, 11-17 and 19 are pending. No new matter has been added by way of the

present amendment. For instance, newly added claim 19 is supported by, for example, the

paragraph spanning pages 19 and 20 of the originally filed specification or page 17, lines 7-21 of

the substitute specification. Accordingly, no new matter has been added.

In view of the following remarks, Applicants respectfully request that the Examiner

withdraw all rejections and allow the currently pending claims.

Issues under 35 U.S.C. §103(a)

The Examiner has rejected claims 1, 3-9, 11, and 13-17 under 35 U.S.C. §103(a) as being

obvious over Bradfield, U.S. Patent No. 5,650,283 (herein Bradfield) in view of Waldman et al.,

Analytical Biochemistry, 258:216-222(1998) (herein Waldman).

The Examiner has also rejected claims claims 2 and 12 under 35 U.S.C. §103(a) as being

obvious over Bradfield in view of Waldman and Kushner, U.S. Patent No. 6,117,638 (herein

Kushner).

Applicants respectfully traverse each of the above rejections.

The Present Invention and its Advantages

The present invention, for instance as defined in claim 1, relates to an animal cell

expressing a gene coding a ligand-responsive transcription control factor and stably transformed

with a DNA comprising genes (a) and (b) in a molecule, wherein gene (a) is a reporter gene

connected downstream from a transcription control region, in which said transcription control

region substantially consists of a recognition sequence of said ligand-responsive transcription

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control factor and a minimum promoter which can function in said cell, and gene (b) is a

selective marker gene which can function in said cell. The animal cell is further characterized by

the fact that gene (c), which is a reporter gene connected downstream from a promoter which

transcription activity is unchanged by having said ligand-responsive transcription control factor

contacted with a ligand of said ligand-responsive transcription control factor, said reporter gene

(c) coding a protein which can be differentiated from the protein coded by said gene (a), is not

present in said cell.

The Examiner's attention is drawn to the fact that the reporter gene (a) is connected

downstream from a transcription control region which substantially consists of a recognition

sequence of the ligand-responsive transcription control factor and a minimum promoter. In the

presently claimed cell, as a result of the specific limitations, the constitutive background

transcription activity is lowered. Since such background activity hinders the measurement of

transcription activity, the lowering of such background activity allows for higher sensitivity in

the detection of ligand-responsive transcription activity. Also, the Examiner's attention is drawn

to newly added claim 19, wherein the minimum promoter is defined as a minimum promoter of a

metallothionein I gene or an ovalbumin gene. Such a minimum promoter is a DNA having a

region which determines the transcription initiation site and relates to maintaining the

transcription level.

<u>Distinctions</u> between the Present Invention and the Cited Art

Applicants respectfully submit that the references cited by the Examiner, whether taken

alone or in combination, fail to suggest or disclose the presently claimed subject matter. For

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instance, Bradfield, Waldman and Kushner each fail to suggest or disclose an animal cell stably

transformed with a DNA comprising in a molecule, a reporter gene (a) connected downstream

from a transcription control region which substantially consists of a recognition sequence of the

ligand-responsive transcription control factor and a minimum promoter, and a selective marker

gene (b). As such, these references fail to recognize the fact that the present animal cell exhibits

higher sensitivity in the detection of ligand-responsive transcription activity.

The Federal Circuit has explained that "the consistent criterion for determination of

obviousness is whether the prior art would have suggested to one of ordinary skill in the art that.

this process should be carried out and would have a reasonable expectation of success. Rockwell

Int'l Corp. v. United States, 47 USPQ2d 1027, 1033 (Fed. Cir. 1998). Thus, the prior art must

first suggest or provide motivation to one of ordinary skill in the art that the subject matter

claimed should be pursued. Then, there must be a reasonable expectation of success. However,

in the present instance the cited art fails as a whole to suggest or disclose a DNA comprising in a

molecule, a reporter gene (a) connected downstream from a transcription control region which

substantially consists of a recognition sequence of the ligand-responsive transcription control

factor and a minimum promoter, and a selective marker gene (b). Based upon this deficiency

alone, Applicants submit that the Examiner has failed to present a valid prima facie case of

obviousness.

However, Applicants further draw the Examiner's attention to newly added claim 19.

Claim 19 defines the minimal promoter as a minimum promoter of metallothionein I gene or

ovalbumin gene. This limitation concerning a specific minimum promoter is completely absent

from the cited art and represents an additional distinction.

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As such, there exist limitations in the present claims, which are completely lacking in

each of the cited references. Accordingly, there exists no prima facie case of obviousness.

In summary, Applicants respectfully submit that there exists no prima facie case of

obviousness. Accordingly, the Examiner is requested to withdraw all rejections and allow the

currently pending claims.

If there are any minor matters precluding allowance of the application which may be

resolved by a telephone discussion, the Examiner is respectfully requested to contact Craig A.

McRobbie (Reg. No. 42,874) at (703) 205-8000.

If necessary, the Commissioner is hereby authorized in this, concurrent, and further

replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any

additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension

of time fees.

Dated: January 23, 2006

Respectfully submitted,

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